

IPW

082177-0318738

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

ALAIN VALLEE ET AL.

Serial No.: 10/628,290

Filed: July 29, 2003

For: POLYIMIDE-BASED LITHIUM  
METAL BATTERY

Art Unit: 1745

Examiner: Not Yet Assigned

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record in the above-identified application the document or documents referenced on the attached Form PTO-1449. A copy of each non U.S. reference is enclosed herewith.

The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Accordingly, Applicants do not believe that a fee is due for filing this paper. However, should a first action on the merits have been issued on the same day or before this Information Disclosure Statement is filed, please accept this Information Disclosure Statement under Rule 97(c) and charge the requisite Rule 17(p) fee to our Deposit Account No. 03-3975, under Order No.

082177-0318738 and proceed to consider this Information Disclosure Statement.

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It is respectfully requested that the information be expressly considered during the prosecution of this application, and that each reference be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This submission does not represent that any referenced document is material or constitutes "prior art." If it should be determined that one or more of the referenced documents constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the reference or references.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over any referenced document, should it be applied against the claims of the present application.


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Respectfully submitted,

ALAIN VALLEE ET AL.

Date: February 10, 2006

By:

  
Lawrence D. Eisen  
Registration No. 32,329

LDE/

Customer No. 00909



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
		<b>Application Number</b>	10/628,290
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Filing Date</b>	July 29, 2003
		<b>First Named Inventor</b>	ALAIN VALLEE ET AL.
		<b>Art Unit</b>	1745
		<b>Examiner Name</b>	Not Yet Assigned
		<b>Attorney Docket Number</b>	082177-0318738
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U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number- Kind Code <sup>2</sup> (if known)			
		US-5,019,467	05/28/1991	Fujiwara	
		US-5,056,145	10/08/1991	YAMAMOTO ET A.	
		US-5,468,571	11/21/1995	Fujimoto et al.	
		US-5,677,568	10/14/1997	Ochi et al.	
		US-5,735,040	04/07/1998	OCHI ET AL.	
		US-5,888,672	03/30/1999	Gustafson et al.	
		US-5,895,731	04/20/1999	Clingempeel	
		US-5,925,283	06/20/1999	Taniuchi et al.	
		US-6,001,507	12/14/1999	Ono et al.	
		US-6,013,393	01/11/2000	Taniuchi et al.	
		US-6,069,234	08/01/2000	NAKANISHI ET AL.	
		US-6,109,530	08/29/2000	LARSON ET AL.	
		US-6,114,068	09/05/2000	YAMADA ET AL.	
		US-6,148,503	11/21/2000	DELNICK ET AL.	
		US-6,291,106	09/18/2001	DIADO ET AL.	
		US-6,296,971	10/02/2001	HARA	
		US-6,315,918	11/13/2001	MITA ET AL.	
		US-6,406,817	06/18/2002	WARIISHI ET AL.	
		US-6,413,675	07/02/2002	HARDA ET AL.	
		US-6,451,480	09/17/2002	GUSTFASON ET AL.	
		US-6,465,134	10/15/2002	SHIBUYA ET AL.	
		US-6,503,831	01/07/2003	SPEAKMAN	
		US-6,509,123	01/21/2003	SHIBUYA ET AL.	
		US-6,534,214	03/18/2003	NISHIJIMA ET AL.	
		US-6,596,440	06/22/2003	GAVELIN ET AL.	
		US-6,617,074	09/09/2003	WATARI ET AL.	
		US-6,632,564	10/14/2003	TAKAHASHI ET AL.	
		US-6,641,957	11/04/2003	KAWAGUCHI ET AL.	
		US-6,673,495	01/06/2004	NISHIURI ET AL.	
		US-6,713,389	03/30/2004	SPEAKMAN	
		US-11/061,751	02/18/2005	NELSON ET AL.	
		US-11/115,193	04/27/2005	WENSLEY ET AL.	
		US-11/127,299	05/12/2005	NELSON ET AL.	
		US-11/187,440	07/22/2005	NELSON ET AL.	
		US-11/191,922	07/29/2005	WENSLEY ET AL.	
		2001/0038937	11/08/2001	SUZUKI ET AL.	
		2002/0128034	09/12/2002	STRATMOEN ET AL.	
		2002/0153424	10/24/2002	LI	
		2002/0160272	10/31/2002	TANAKA ET AL.	
		2002/0177039	11/28/2002	LU ET AL.	
		2002/0187377	12/12/2002	SHINODA ET AL.	
		2003/0059681	03/27/2003	NOH	
		2003/0194607	10/16/2003	HUANG	
		2003/0222755	12/04/2003	KEMPER ET AL.	
		2004/0009403	01/15/2004	KIM ET AL.	
		2004/0018424	01/29/2004	ZHANG ET AL.	
		2004/0043290	03/04/2004	HATTA	
		2004/0229118	11/18/2004	WENSLEY	
		2004/0229127	11/18/2004	WENSLEY	
		2005/0026042	02/03/2005	VALLEE ET AL.	
		2005/0153209	07/14/2005	VALLEE ET AL.	

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	10/628,290
				Filing Date	July 29, 2003
				First Named Inventor	ALAIN VALLEE ET AL.
				Group Art Unit	1745
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	082177-0318738

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> <i>(if known)</i>				
		EP 0 821 368	01/28/1998	ROHM & HASS CO.		<input type="checkbox"/>
		EP 0 823 744	02/11/1998	MITSUI PETROCHEMICAL		<input type="checkbox"/>
		EP 0 825 619	02/25/1998	RHOM & HASS CO.		<input type="checkbox"/>
		JP 05-285665	10/20/1993	ATSUSHI ET AL.		<input type="checkbox"/>
		JP 06-131422	05/20/1995	MIKIYA ET AL.		<input type="checkbox"/>
		JP 08-344237	12/24/1996	TAKASHI ET AL.		
		JP 10-129213	05/12/1998	TAKAYOSHI		
		JP 10-190609	07/06/1998	HIDEAKI ET AL.		
		WO 1999/032929	07/01/1999	ROCKWELL SCIENCE CENTER		<input type="checkbox"/>
		WO 2002/063073	08/15/2002	LU ET AL.		<input type="checkbox"/>
		WO 2002/013304	02/14/2002	SOUTHERN CLAY PRODUCTS, INC.		<input type="checkbox"/>
						<input type="checkbox"/>

Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	082177-0318738

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		LEVINE et al., "Electrochemical behavior of the polypyrrole/polyimide composite by potential step amperometry," Journal of Power Sources, Vol. 124, pp. 355-359, (2003).	<input type="checkbox"/>
		MEADOR et al., "Effects of Branching on Rod-Coil Block Polyimides as Membrane Materials for Lithium Polymer Batteries," Chem. Mater., Vol. 15, No. 15, pp. 3018-3025, (2003).	<input type="checkbox"/>
		MUNNIK et al., "Stopping power measurements of 0.5-10.5 MeV <sup>7</sup> Li ions in polyimide, vyny, formvar, and polysulfone," Journal of Applied Physics, Vol. 86, No. 7, 00. 3934-3938, (October 1999).	<input type="checkbox"/>
		NIE et al., "Novel Polymeric Aromatic Lithium Sulfonylimides as Salts for Polymer Electrolytes," Journal of Applied Polymer Science, Vol. 85, pp. 1802-1805, (2002).	<input type="checkbox"/>
		TOKUDA et al., "Synthesis, Characterization, and Ion-Conductive Behavior in an Organic Solvent and in a Polyether of a Novel Lithium Salt of a Perfluorinated Polyimide Anion," Macromolecules, Vol. 35, No. 4, pp. 1403-1411, (2002).	<input type="checkbox"/>
		VIEHBECK et al., "Electrochemical Properties of Polyimides and Related Imide Compounds," Journal of the Electrochemical Society, Vol. 137, No. 5, pp. 1460-1466, (May 1990).	<input type="checkbox"/>
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